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at a frequency of at least about 10 kHz.

	WHAT IS CLAIMED IS:	
$\frac{1}{2}$	1. A method for conditioning a packaged powder, the method comprising:	
3	providing a receptacle having an enclosed chamber containing an amount	t
4	of a powder; and	
5	providing at least one pulse of energy to the receptacle to increase the	
6	efficiency at which the powder may be extracted from the chamber when flowing a gas	
7	through the chamber.	
1	2. A method as in claim 1, further comprising providing the pulse of	Î
2	energy while the powder is sealed within the chamber.	
1	3. A method as in claim 1, wherein the pulse providing step further	
2	comprises quickly striking the receptacle.	
1	4. A method as in claim 3, further comprising striking the receptacle	;
2	with an amount of energy of at least about 0.01 lbf-in.	
1	5. A method as in claim 3, further comprising releasing a spring-	
2	loaded lever to quickly strike the receptacle.	
1	6. A method as in claim 1, wherein the pulse providing step further	
2	comprises moving the receptacle past an arm that temporarily engages a portion of the	
3	receptacle.	
1	7. A method as in claim 1, wherein the pulse providing step further	
2	comprises bending and quickly releasing receptacle to permit receptacle to strike a	
3	surface.	
1	8. A method as in claim, wherein the pulse providing step further.	
2	comprises providing a pulse of vibratory energy to the receptacle.	
1	9. A method as in claim 8, further comprising contacting the	
2	receptacle with a vibrating piezoelectric transducer to provide the vibratory energy.	
1	10. A method as in claim 9, further comprising vibrating the transduc	er

1	11. A method as in claim 1, wherein the powder is composed of fine
2	particles having a mean size in the range from about 0.5 µm to about 5 µm.
1	12. A method as in claim 1, further comprising providing at least on
2	pre-conditioning step prior to providing said at least one pulse of energy, wherein said
3	pre-conditioning step comprises vibrating the receptacle for a predetermined period of
4	time.
1	13. A method as in claim 1, wherein the receptacle is vibrated at a
2	frequency within the range of about 0.01 Hz to about 500 Hz
1	14. A method as in claim 1, wherein the receptacle is vibrated for
2	about 0.01 minute to about 10 minutes.
1	15. A powder conditioning system comprising:
2	a receptacle having an enclosed chamber containing an amount of a
3	powder; and
4	a mechanism to provide at least one pulse of energy to the receptacle to
5	increase the efficiency at which the powder may be extracted from the chamber when
6	flowing a gas through the chamber.
1	16. A system as in claim 15, wherein the mechanism comprises a
2	striking device to quickly strike the receptacle.
1	17. A system as in claim 16, wherein the striking device is configure
2	to strike the receptacle with at least about 0.01 lbf-in in energy.
1	18. A system as in claim 16, wherein the striking device comprises a
2	spring-loaded lever arm, and a release apparatus to release the lever arm.
1	19. A system as in claim 18, further comprising a pivotal latch having
2	a lock that pivots as the receptacle is moved against the latch, and a trigger having a
3	ramp, wherein the lock of the latch is slidable upon the ramp when the latch pivots to
4	cause the lever arm to pivot and compress a first spring and cause the lock to engage th
5	trigger to lock the lever arm in an energy storage position.

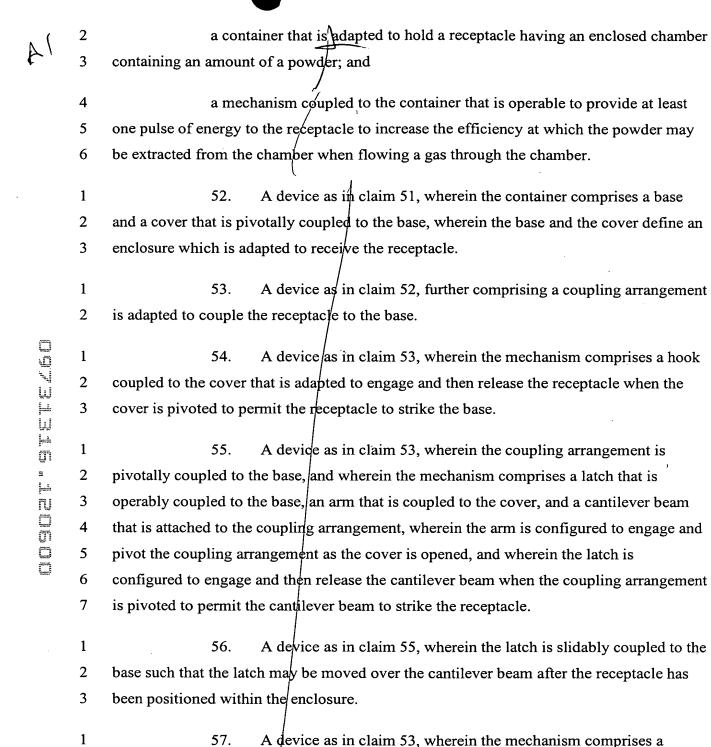
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1	20. A system as in claim 19, further comprising a second spring that is
2	in contact with the trigger, wherein further movement of the receptacle causes the
3	receptacle to engage and move the trigger away from the lock to release the lever arm
4	which then strikes the receptacle.
1	21. A system as in claim 15, wherein the mechanism comprises a
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	bending device that is configured to bend and then quickly release the receptacle to
3	permit the receptacle to strike a surface.
1	22. A system as in claim 15, wherein the mechanism comprises an arm
2	that is mounted to a frame, and a movable platform to move the receptacle past the arm
3	while temporarily engaging the arm.
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1	23. A system as in claim 15, wherein the mechanism comprises a
2	vibratable element that is configured to at least temporarily contact the receptacle.
1	24. A system as in glaim 23, wherein the vibratable element comprises
2	a piezoelectric transducer.
1	25. A system as in claim 15, wherein the receptacle further comprises
2	metallic body having a tab extending from the chamber.
1	26. A system as in claim 15, wherein the powder is composed of fine
2	particles having a mean size in the range from about 0.5 μm to about 5 μm.
_	particles having a mean size in the range from about 0.5 μm to about 5 μm.
1	27. A system as in claim 15, further comprising a container having an
2	enclosure, wherein the receptacle is held within the enclosure, and wherein the
3	mechanism is coupled to the container.
1	28. A system as in claim 27, wherein the container comprises a base
2	and a cover that is pivotally coupled to the base, wherein the base and the cover define the
3	enclosure.
1	29. A system as in claim 28, further comprising a coupling
2	arrangement that counter the recentuals to the base

	30.	A systen	as in claim	28, wherein the mechanism comprises a hook
coupled to th	e cover	that engag	es and then	releases the receptacle when the cover is
pivoted to pe	rmit the	e receptacle	to strike the	e base.

- 31. A system as in claim 29, wherein the coupling arrangement is pivotally coupled to the base, and wherein the mechanism comprises a latch that is operably coupled to the base, an arm that is coupled to the cover, and a cantilever beam that is attached to the coupling arrangement, wherein the arm is configured to engage and pivot the coupling arrangement as the cover is opened, and wherein the latch is configured to engage and then release the cantilever beam when the coupling arrangement is pivoted to permit the cantilever beam to strike the receptacle.
- 32. A system as in claim 31, wherein the latch is slidably coupled to the base such that the latch may be moved over the cantilever beam after the receptacle has been positioned within the enclosure.
- 33. A system as in claim 28, wherein the mechanism comprises a spring that is coupled to the cover and a latch that is operably coupled to the base, wherein the latch is operable to release the spring to permit the spring to strike the receptacle.
- 1 34. A system as in claim 33, wherein the latch is slidably coupled to the base such that the latch may be moved to release the spring after the cover has been closed.
 - 35. A system as in claim 15, further comprising a housing and a plurality of receptacles that are stacked within the housing, and wherein the mechanism comprises a biased striking member and a trigger that is movable between a home position and a striking position, wherein movement of the trigger to the striking position releases the striking member to permit the striking member to strike one of the receptacles.
 - 36. A system as in claim 35, further comprising an advancement apparatus that is configured to advance the receptacles toward the striking member upon movement of the trigger to the striking position, and further comprising a push plate

4	coupled to the trigger such that movement of the trigger back to the home position pushes
5	a treated receptacle from the housing.
1	37. A powder dispersion device, comprising:
2	a housing that is adapted to receive a receptacle having an enclosed
3	chamber containing an amount of a powder;
4	an aerosolization system in the housing to extract the powder from the
5	receptacle and to entrain the powder in a gas stream to form an aerosol;
6	a mechanism to provide at least one pulse of energy to the receptacle prior
7	to aerosolization to increase the efficiency at which the powder may be extracted from the
8	chamber when flowing a gas through the chamber.
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1	38. A device as in claim 37, wherein the mechanism comprises a
2	striking device disposed in the housing to quickly strike the receptacle.
1	39. A device as in claim 37, wherein the striking device comprises a
2	spring-loaded lever arm, and a release apparatus to release the lever arm.
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1	40. A device as in claim 37, further comprising a pivotal latch having a
2	lock that pivots as the receptacle is moved against the latch, and a trigger having a ramp,
3	wherein the lock of the latch is slidable upon the ramp when the latch pivots to cause the
4	lever arm to pivot and compress a first spring and cause the lock to engage the trigger to
5	lock the lever arm in an energy storage position.
1	41. A device as in claim 40, further comprising a second spring that is
2	in contact with the trigger, wherein further movement of the receptacle causes the
3	receptacle to engage and move the trigger away from the lock to release the lever arm
4	which then strikes the receptacle
1	42. A device as in claim 37, wherein the mechanism comprises an arm
2	that is operably mounted to the housing, and a movable platform to move the receptacle
3	past the arm while temporarily engaging the arm.
1	43. A device as in claim 37, wherein the mechanism comprises a
2	vibratable element in the housing that is configured to at least temporarily contact the
3	recentacle

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1'	44. A device as in claim 43, wherein the vibratable element comprises
2	a piezoelectric transducer.
1	45. A device as in claim 37, wherein the aerosolization system
2	comprises a mouthpiece that is adapted to receive a patient's mouth to permit the patient
3	to create the gas stream.
1	46. A kit for aerosolizing a powder, comprising:
2	at least one receptacle having an enclosed chamber containing an amount
3	of a powder;
4	an aerosolization device having an opening for receiving the receptacle;
5	and
6	instructions describing a method for providing at least one pulse of energy
7	to the receptacle prior to aerosolizing the powder.
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1	47. A kit as in claim 46, wherein the instructions describe manually
2	striking the receptacle with a finger or a hard surface.
1	48. A kit as in claim 46, further comprising a powder conditioning
2	device, and wherein the instructions describe placing the receptacle into the powder
3	conditioning device prior to placing the receptacle into the aerosolization device.
1	49. A kit as in claim 48, wherein the powder conditioning device
2	comprises a frame and a spring-loaded lever arm pivotally coupled to the frame, wherein
3	the lever arm is releasable to strike the receptacle.
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1	50. A kit as in claim 49, wherein the instructions describe placing the
2	receptacle into the aerosolization device and operating a button on the aerosolization
3	device to supply an amount of energy to the receptacle to increase the efficiency at which
4	the powder may be extracted from the chamber when operating the device.
1	51. A powder copilitioning device comprising:



spring that is coupled to the cover and a latch that is operably coupled to the base, wherein the latch is operable to release the spring to permit the spring to strike the receptacle.

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1	58. A device as in claim 57, wherein the latch is slidably coupled to the			
2	base such that the latch may be moved to release the spring after the cover has been			
3	closed.			
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1	59. A device as in claim/51, wherein the container is adapted to hold a			
2	plurality of stacked receptacles, and wherein the mechanism comprises a biased striking			
3	member and a trigger that is movable between a home position and a striking position,			
4	wherein movement of the trigger to the striking position releases the striking member to			
5	permit the striking member to strike one of the receptacles.			
1	60. A device as in claim 59, further comprising an advancement			
2	apparatus that is configured to advance the receptacles toward the striking member upon			
3	movement of the trigger to the striking position, and further comprising a push plate			
4	coupled to the trigger such that movement of the trigger back to the home position pushes			
5	a treated receptacle from the container.			
1	61. A method for aerosolizing a powder, the method comprising:			
2	placing a receptacle having a chamber containing an amount of a powder			
3	into an aerosolization device having an aerosolization system for extracting the powder			
4	from the receptacle and for entraining the powder in a gas stream to form an aerosol, and			
5	a mechanism to provide at least one pulse of energy to the receptacle; and			
6	providing a pulse of energy to the receptacle with the mechanism and			
7	actuating the aerosolization system to extract the powder from the receptacle at about the			
8	same.			
1	62. A method as in claim 61, wherein the pulse of energy is provided			
2	within about 100 ms before actuation of the aerosolization system to about 25 ms after			
3	actuation of the aerosolization system.			
1	63. A method as in claim 61, wherein the emitted dose is increased by			
2	about 10% when the pulse of energy is provided at about the same time as actuation of			
3	the aerosolization system.			